

[Fig.1]

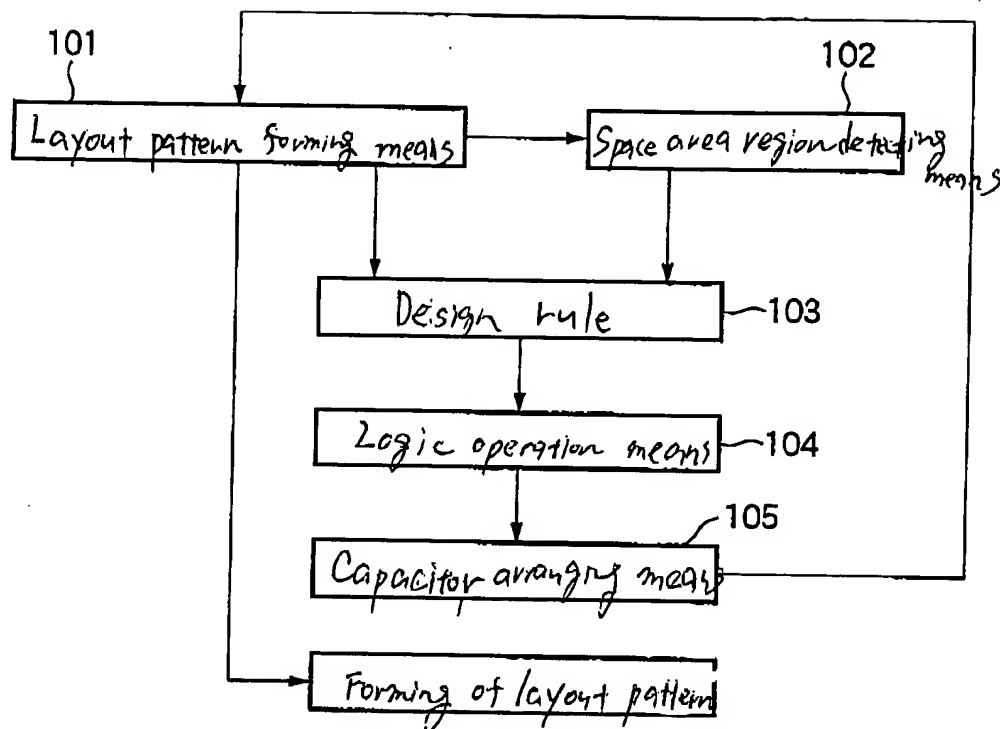
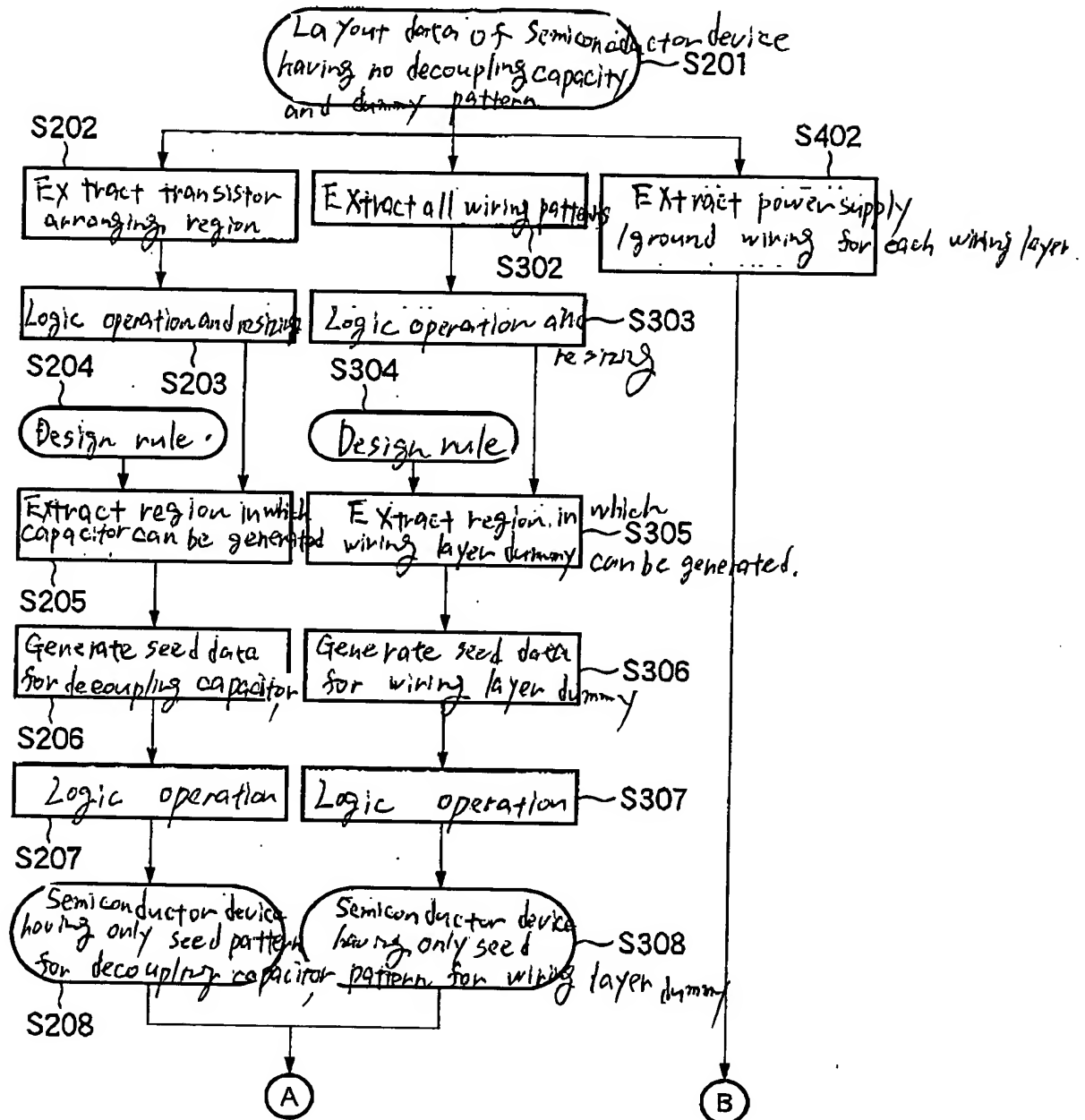


Fig.2

Capacity generating flow chart



[Fig. 3]

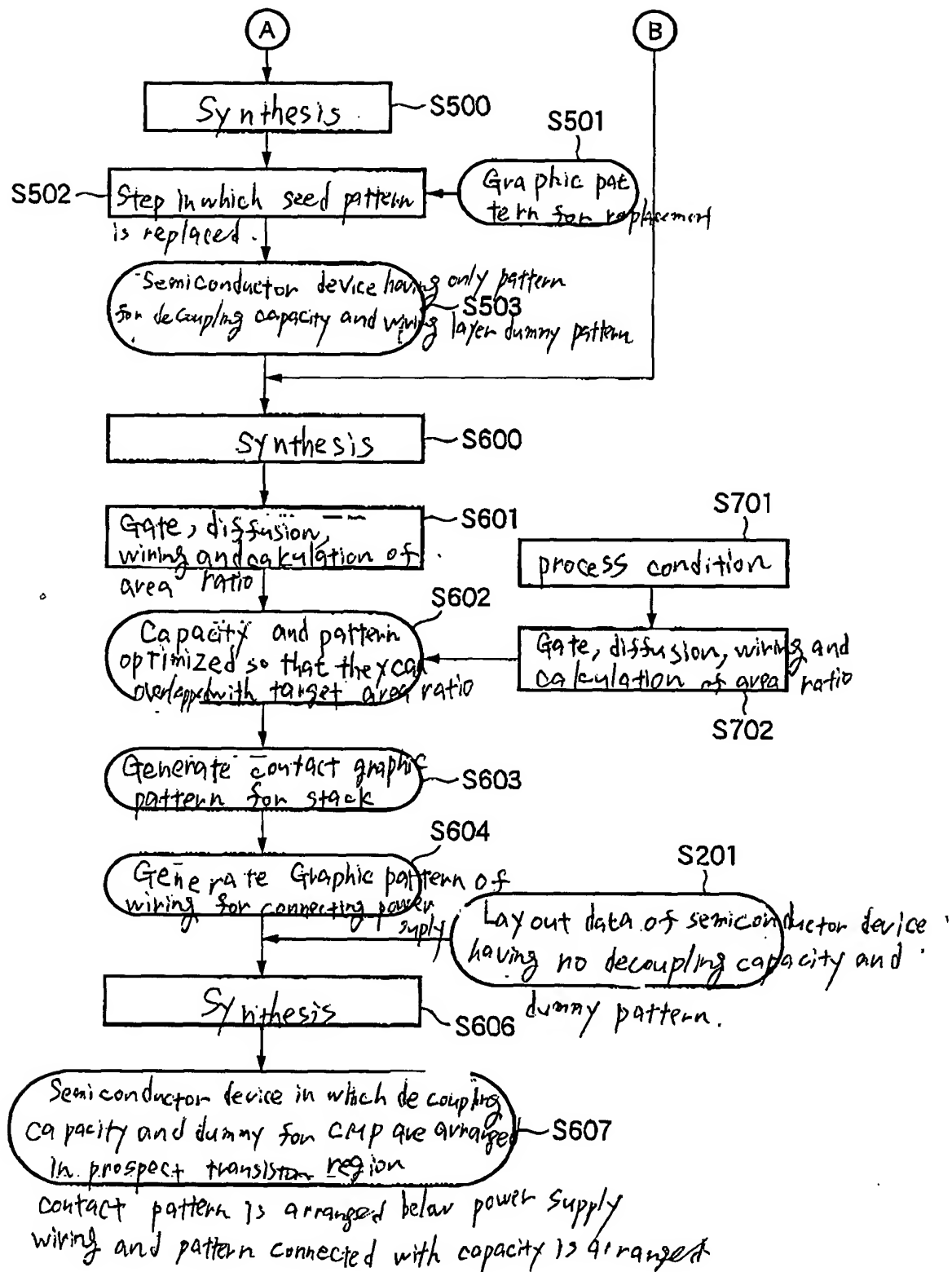


Fig.4

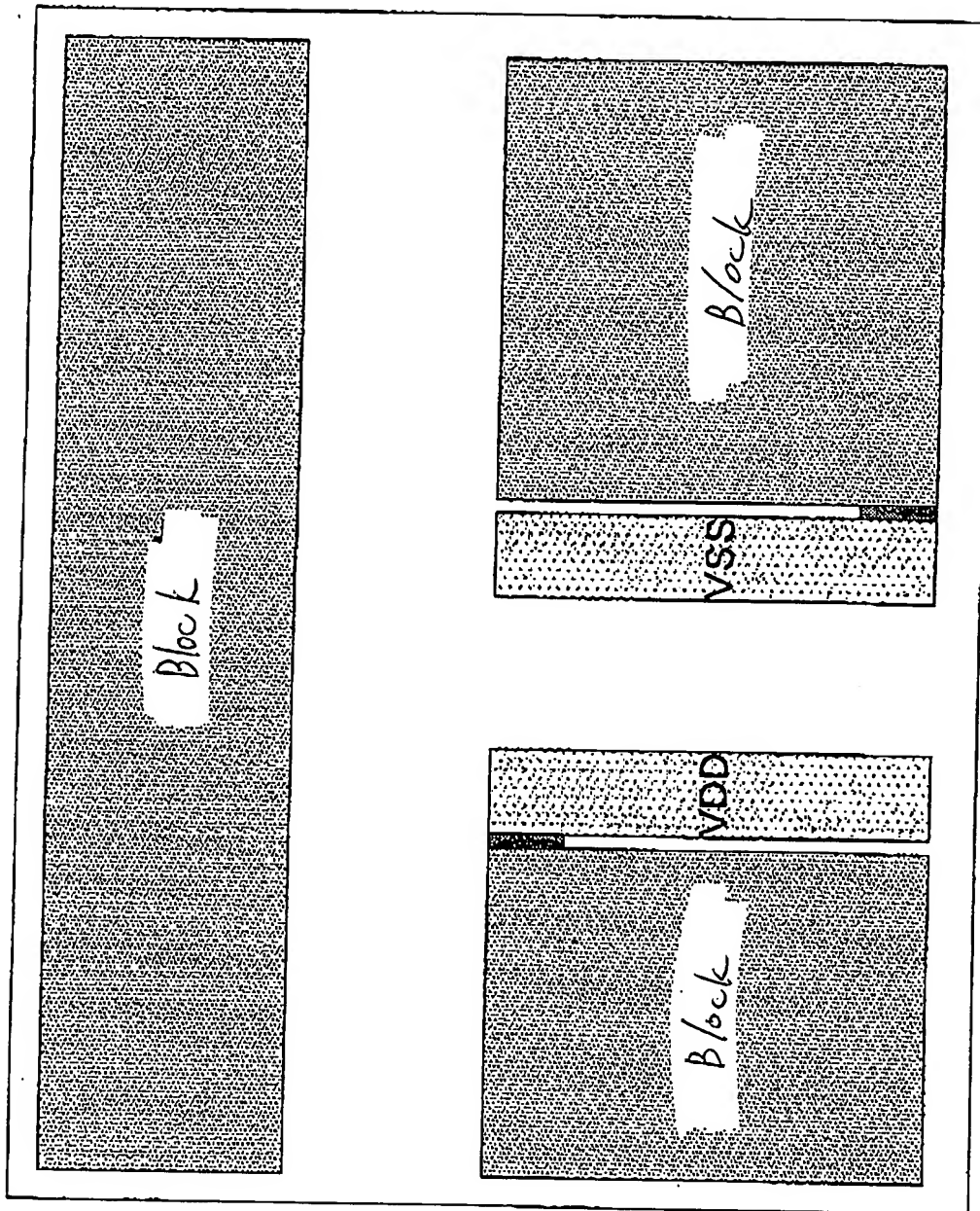


Fig. 5

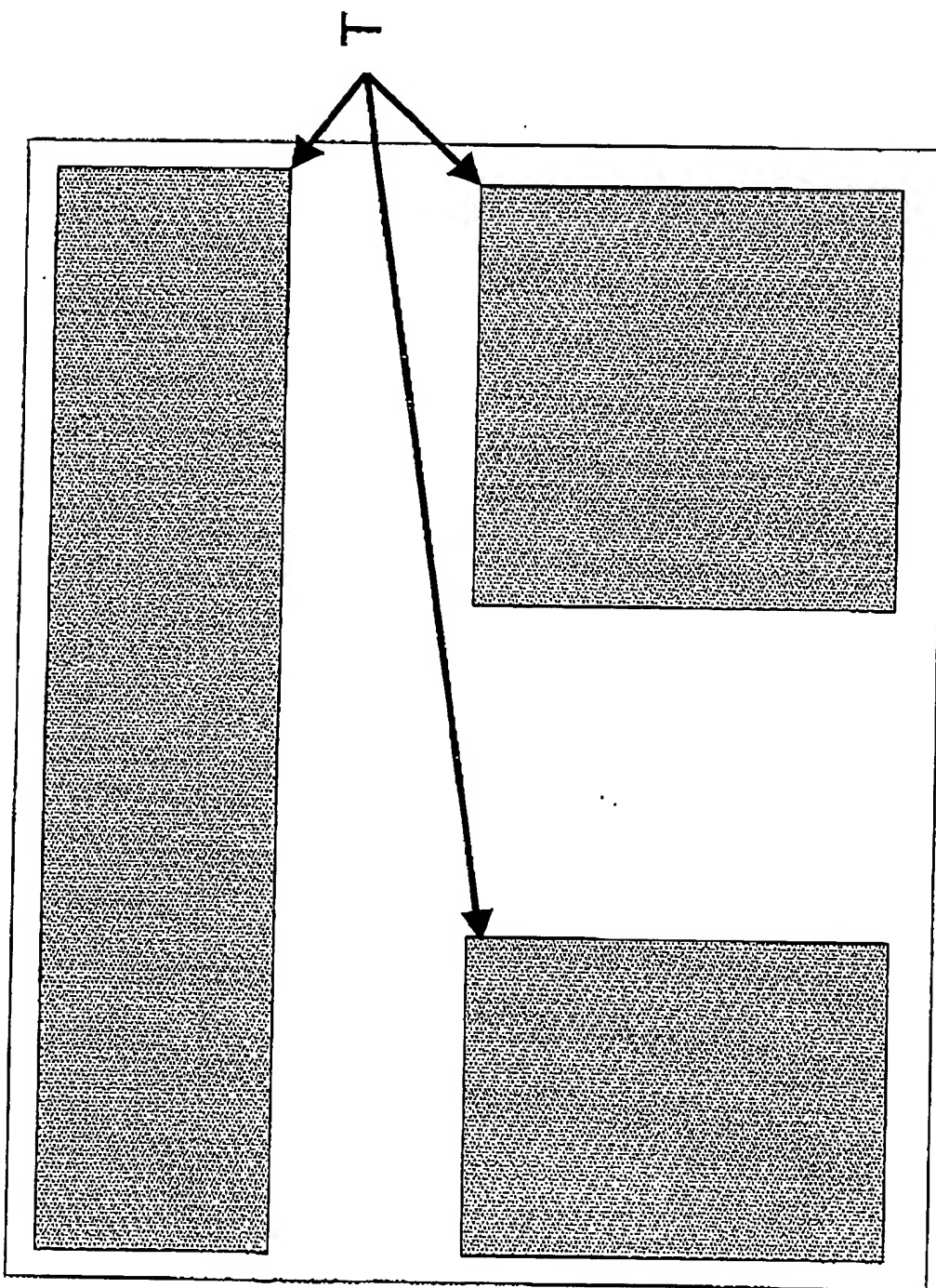


Fig.6

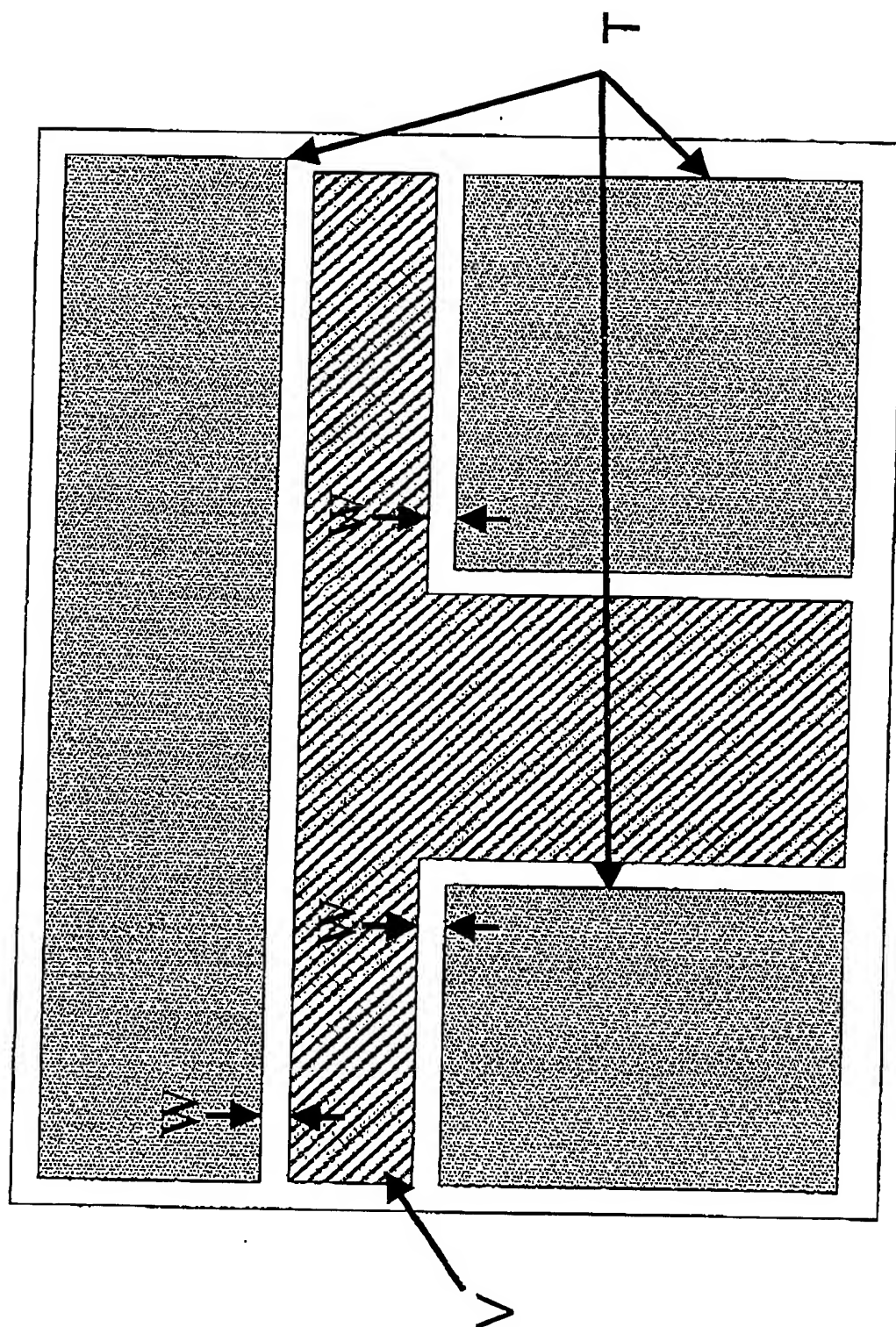
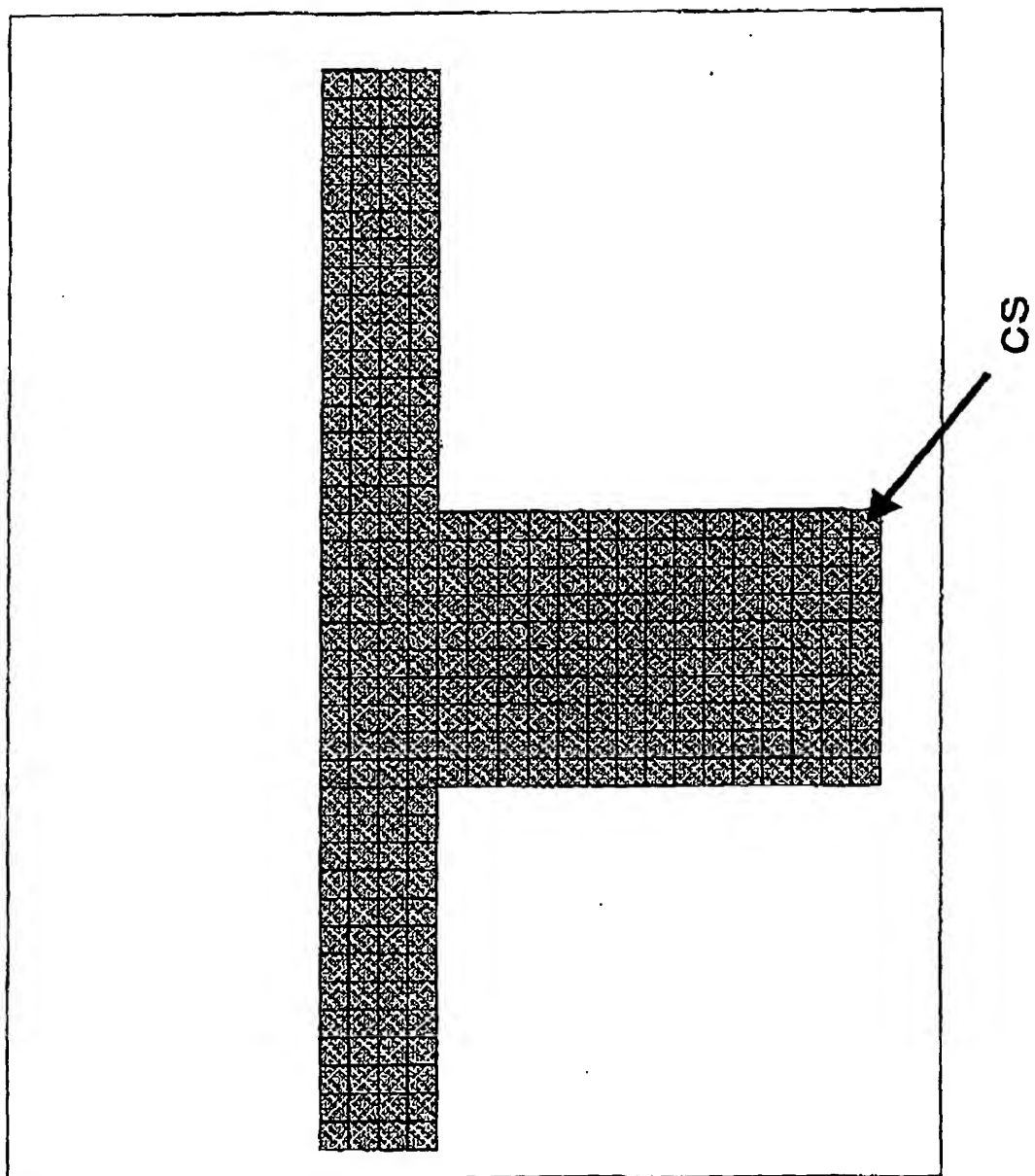
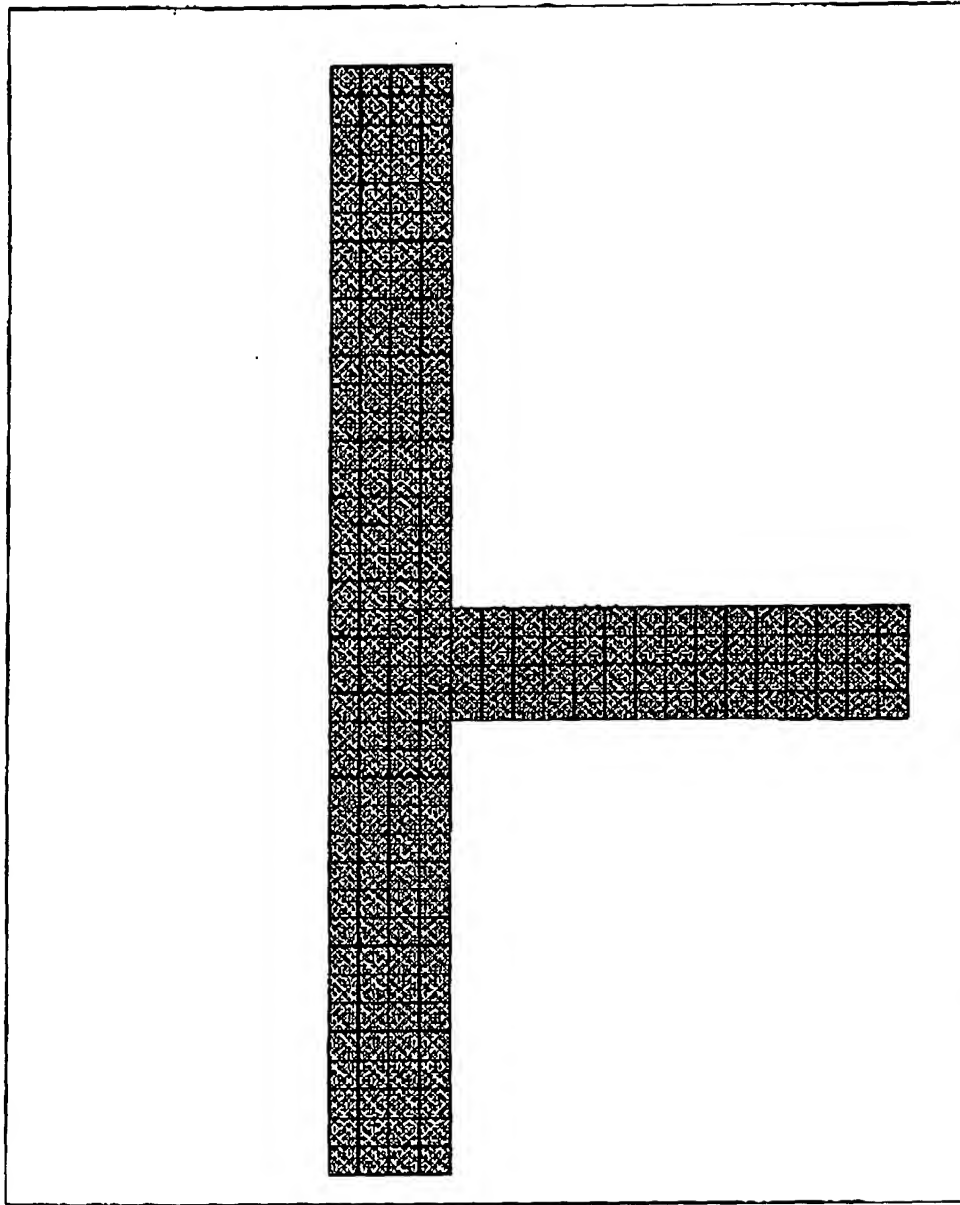


Fig. 7



[Fig.8]



[Fig. 9]

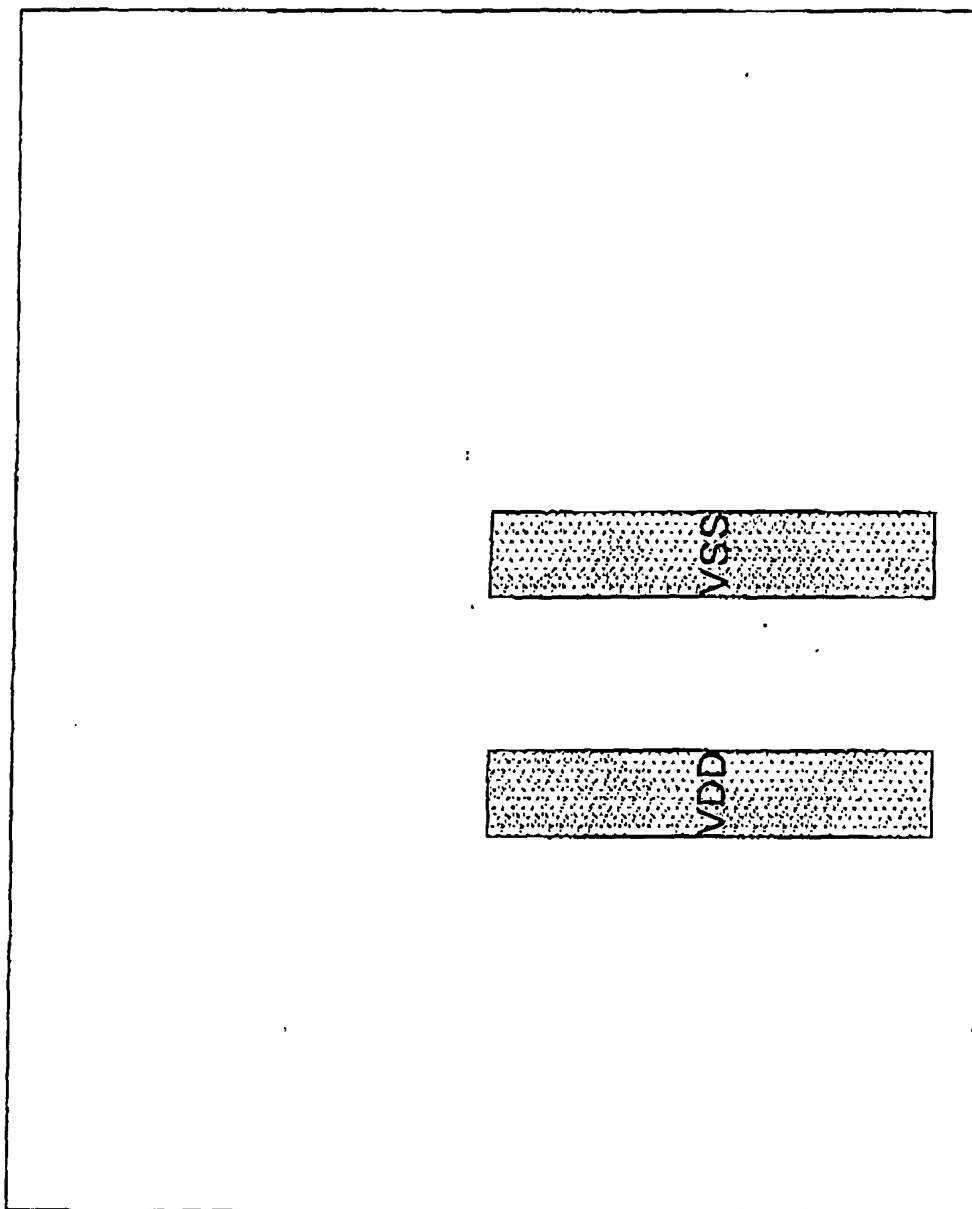


Fig.10

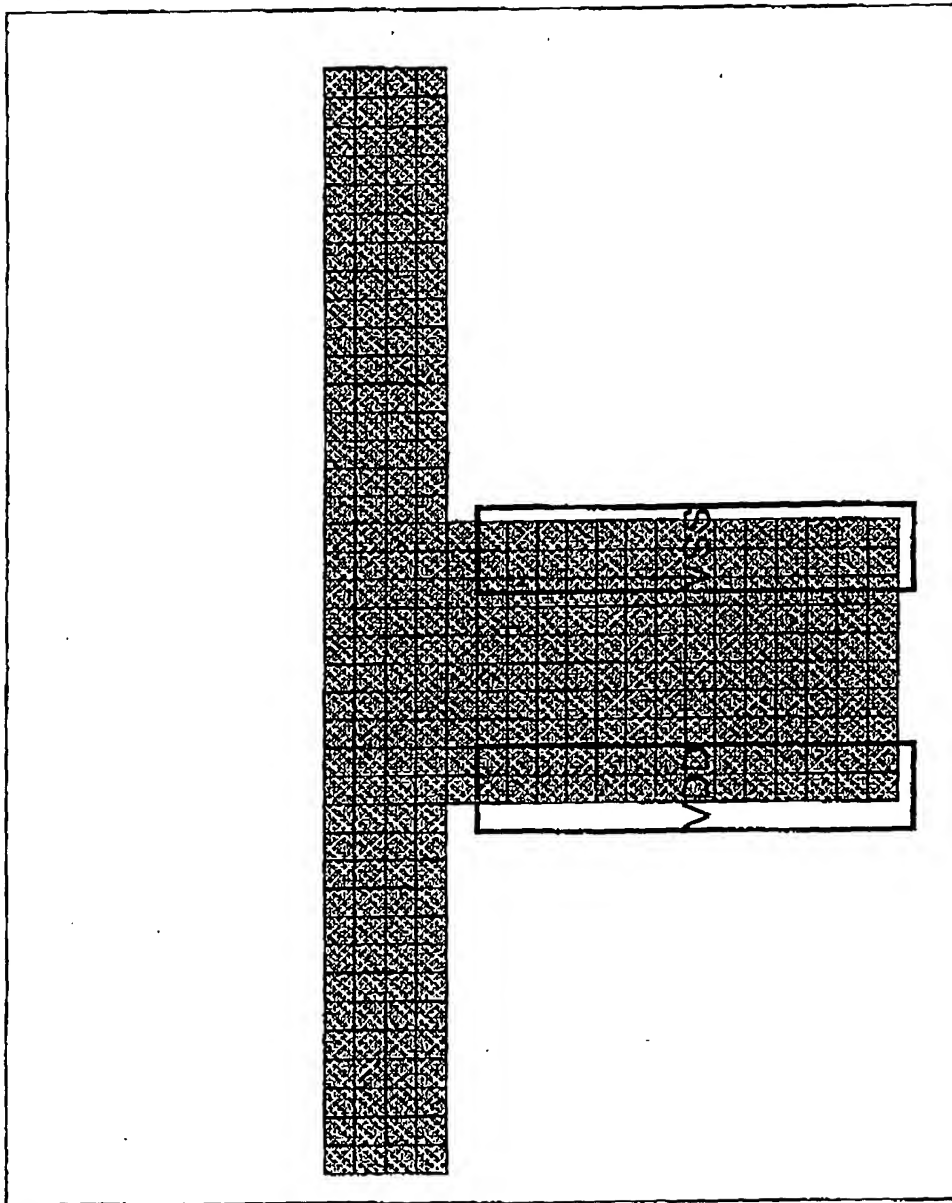
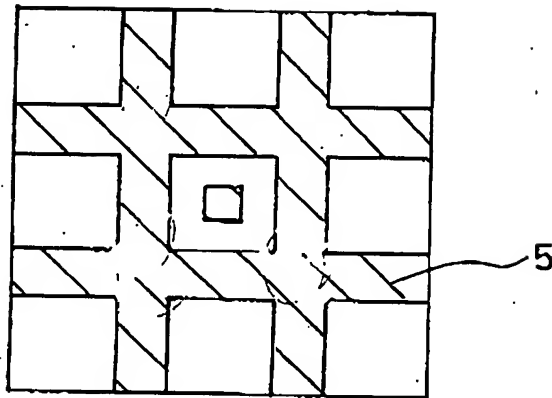
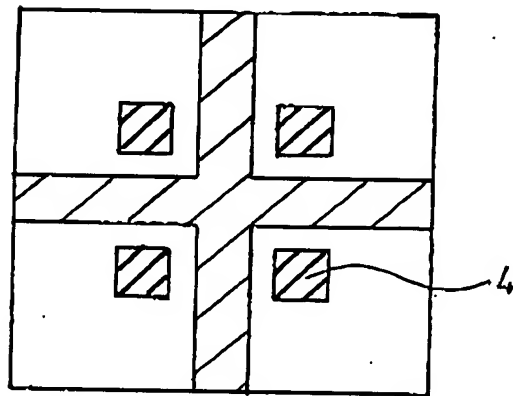


Fig. 11

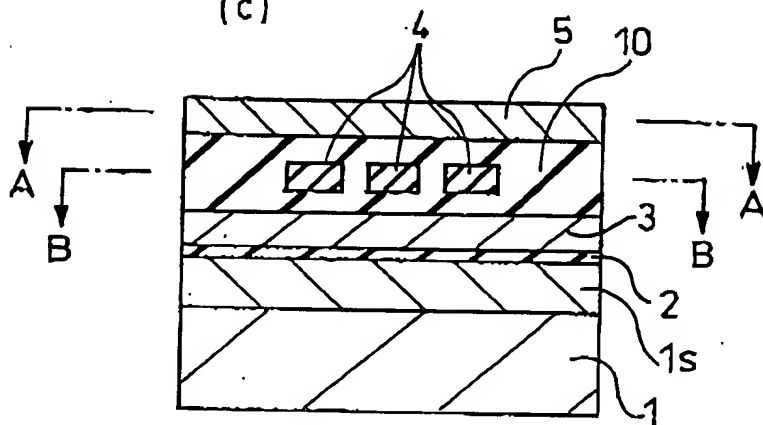
(a)



(b)



(c)



[Fig. 12]

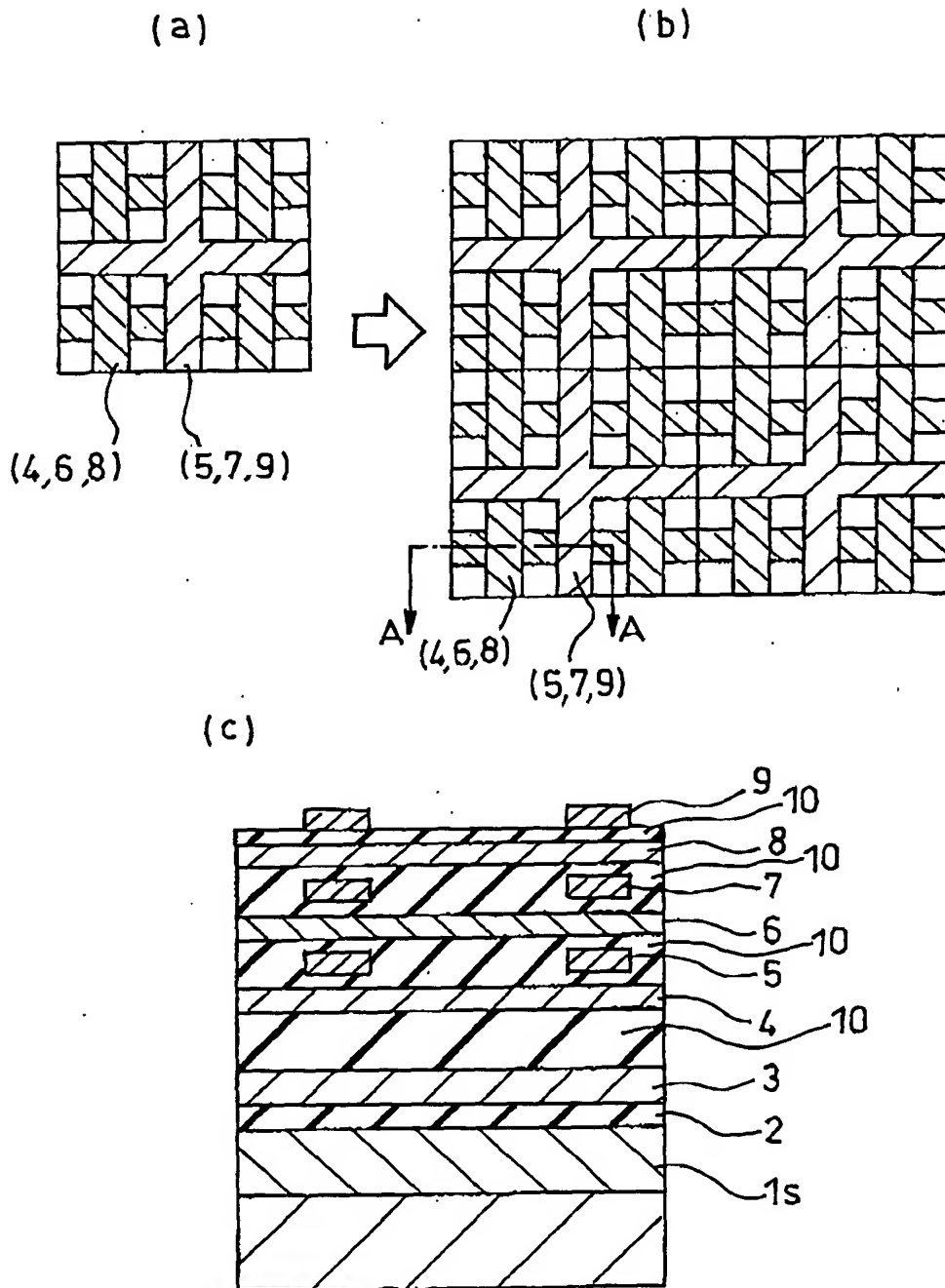


Fig. 13

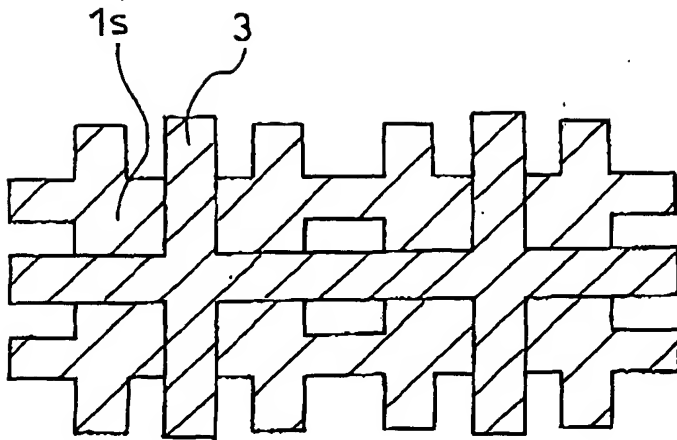


Fig. 14

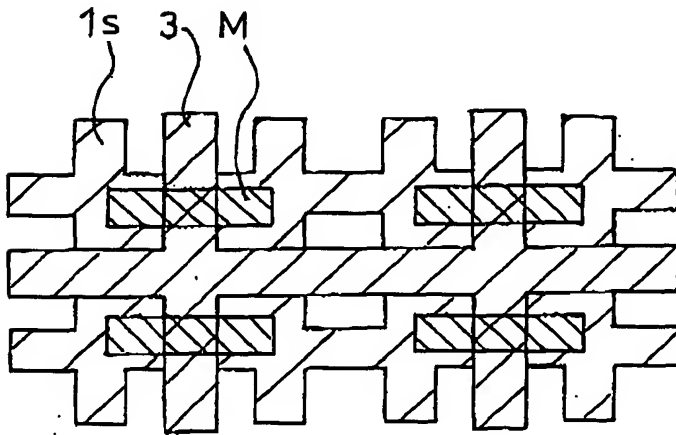


Fig.15

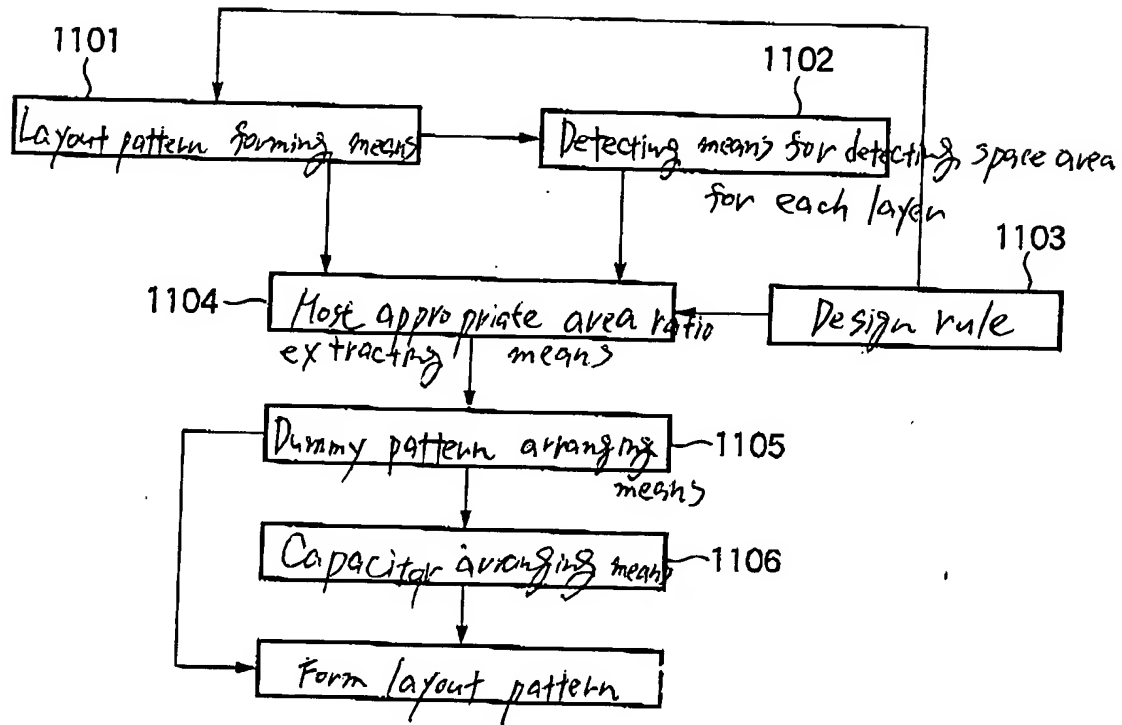


Fig-16

Dummy generating flow chart

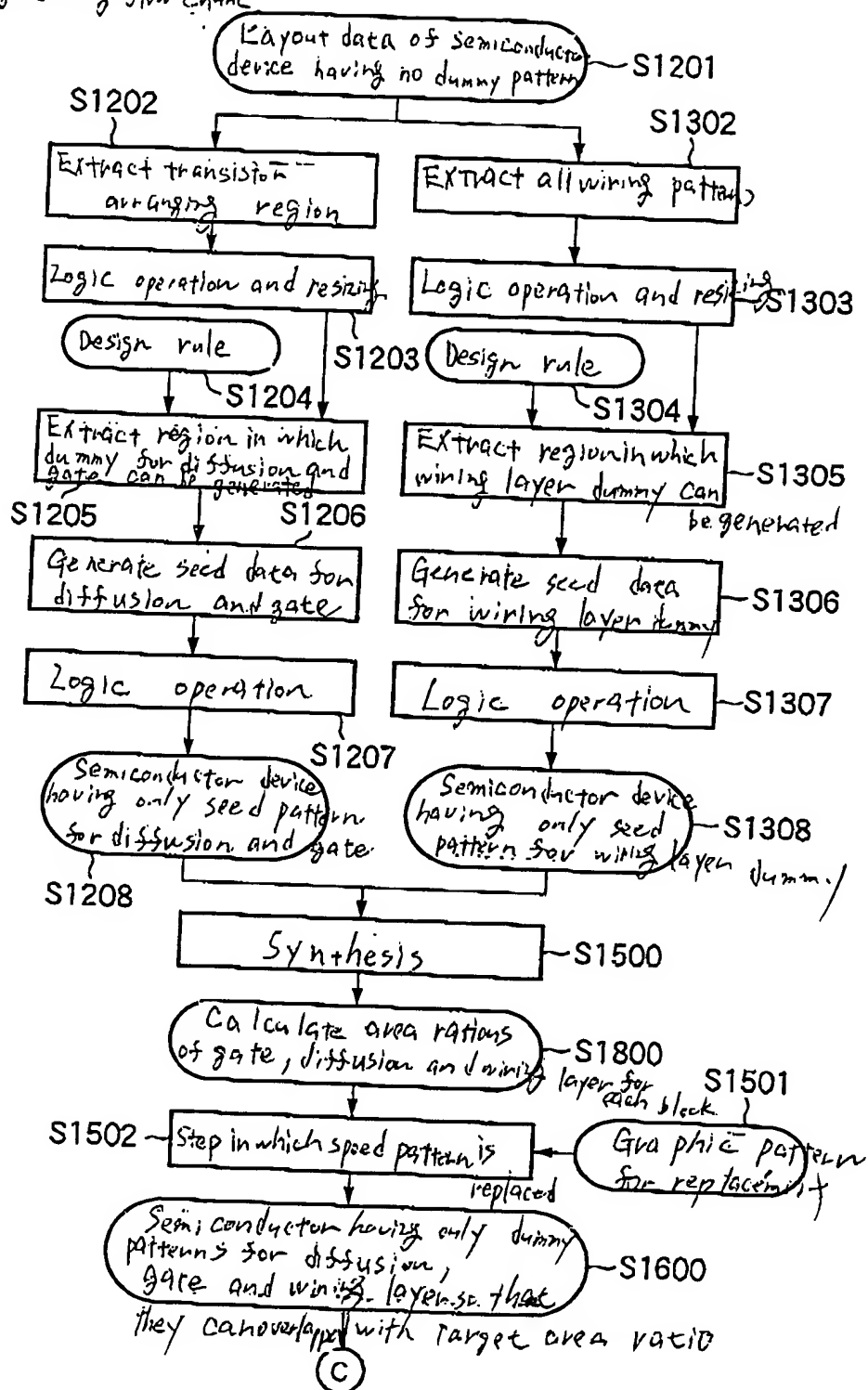


Fig. 17

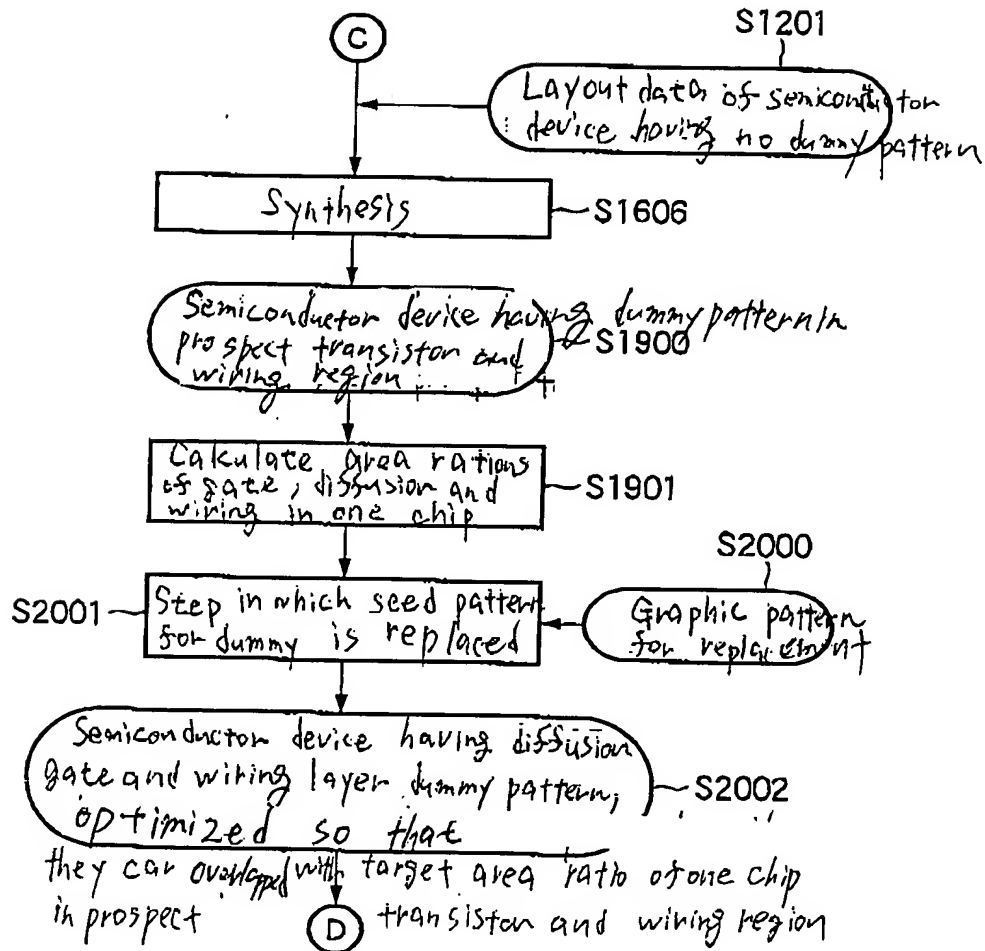


Fig. 18

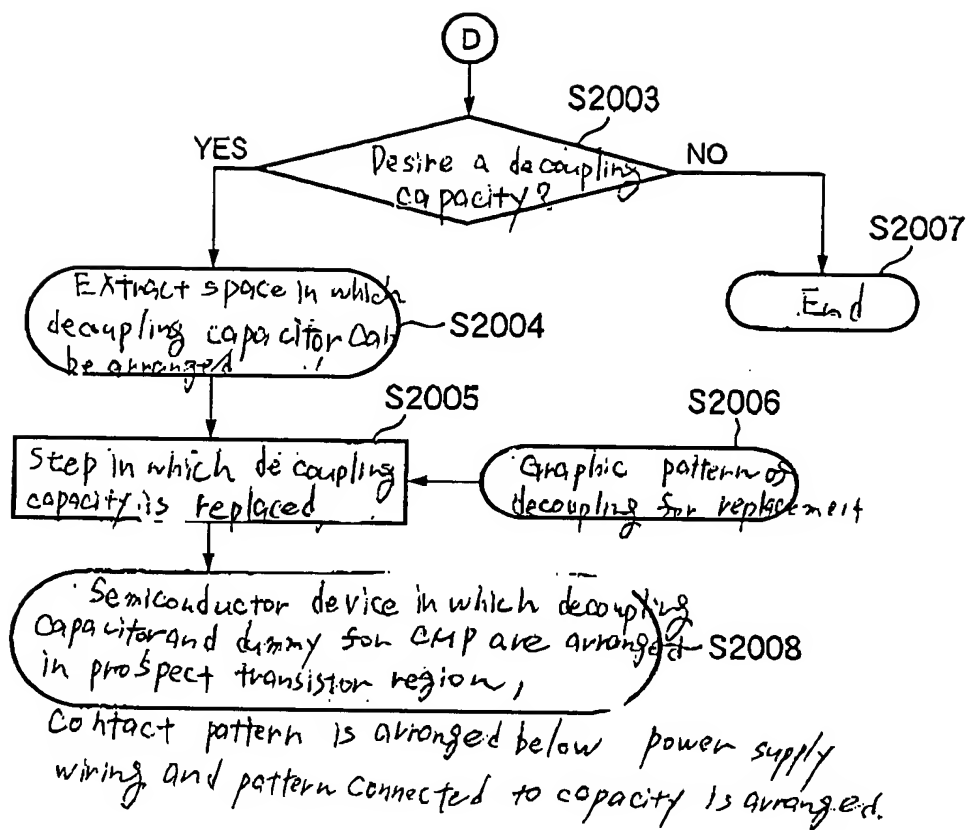


Fig. 19.

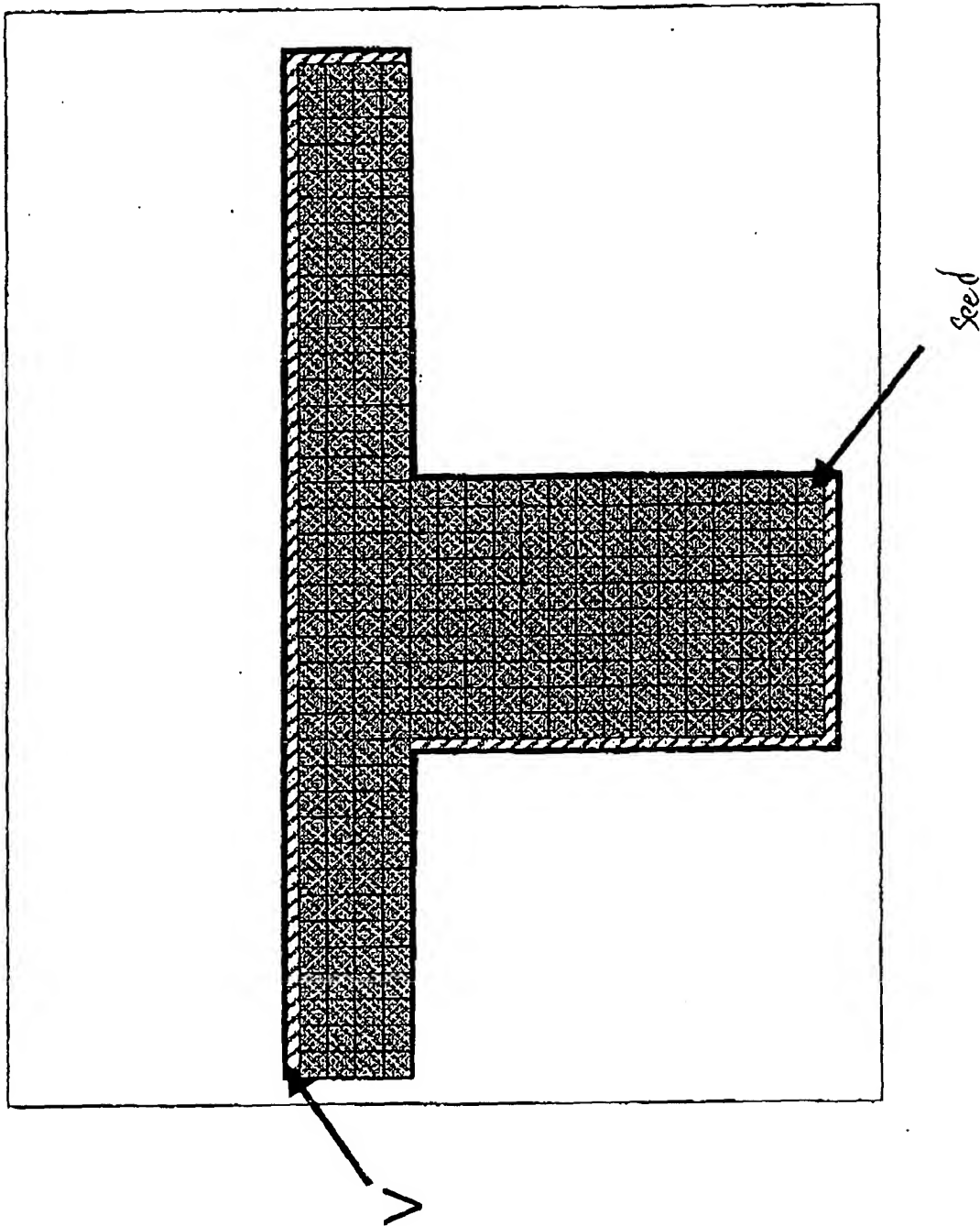
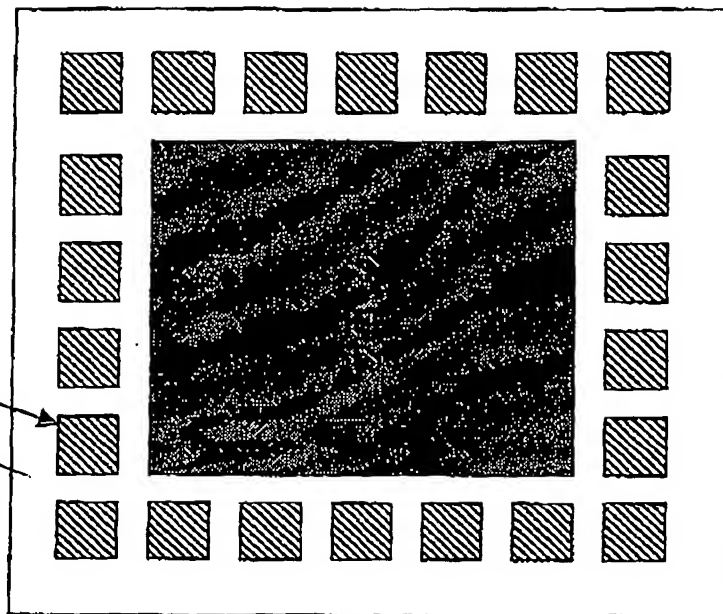


Fig.20

(b)

In the case where area ratio is too low, dummy cell is replaced with one of high density

Dummy pattern D2

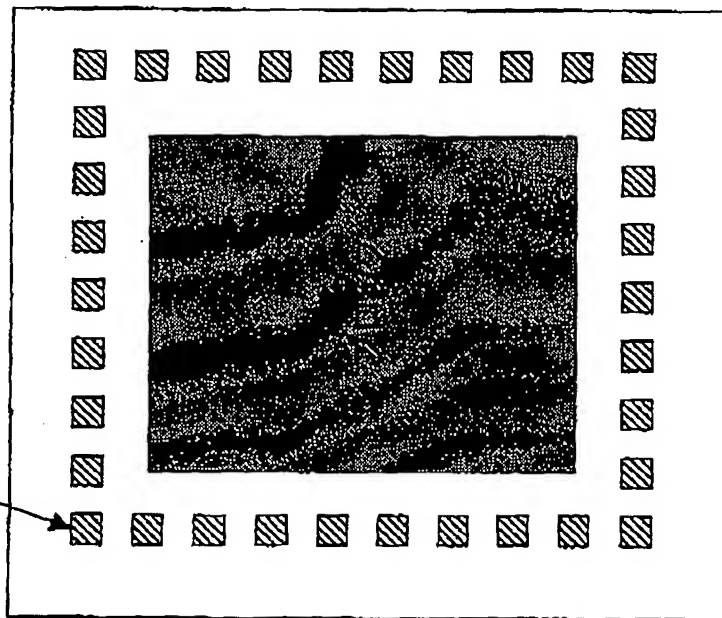


Most appropriate area ratio



(a)

Dummy pattern D1



Area ratio is too low